

L Number	Hits	Search Text	DB	Time stamp
12	1499	(349/106).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 10:24
19	1527	(349/106,108).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 11:26
26	1	((349/106,108).CCLS.) and bored near part	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 10:28
33	11	((349/106,108).CCLS.) and bored	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 11:25
40	1127	((359/502,891) or (430/245,369,511)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 11:25
47	207	((349/106,108).CCLS.) and (hole via) same filter	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:59
54	0	20020047959.URPN.	USPAT	2003/05/21 13:16
55	2	("6365455").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 13:53
102	83	((((359/502,891) or (430/245,369,511)).CCLS.) and (hole via) same filter	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:59
109	75	((((359/502,891) or (430/245,369,511)).CCLS.) and (hole via) same filter) not ((349/106,108).CCLS.) and (hole via) same filter)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 14:59
116	2	("6147729").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 15:56
123	6	6147729.URPN.	USPAT	2003/05/21 15:49
124	3	("5748266" "5757451" "5815232").PN.	USPAT	2003/05/21 15:49
125	2	jp-08287076-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 15:57
132	2	jp-10133191-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 16:25
139	2	("6323921").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 16:25

-	2	"20020047959"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/21 10:22
-	496	bored adj part	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/03/14 14:33
-	28622	(349/\$6).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/03/14 13:05
-	3	(bored adj part) and ((349/\$6).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/03/14 13:05
-	4	(bored adj part) and LCD	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/03/14 14:33

PAT-NO: JP410133191A
DOCUMENT-IDENTIFIER: JP 10133191 A
TITLE: COLOR FILTER SUBSTRATE AND LIQUID
CRYSTAL DISPLAY
ELEMENT
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INT-CL (IPC): G02F001/1335, G02B005/20 , G02F001/1339

ABSTRACT:

PROBLEM TO BE SOLVED: To make an aperture rate high and prevent a display defect as much as possible by equipping one of multicolored layers constituting a spacer part with a spacer part which is continuous from the colored layer of a color filter part, and equipping each of the colored layers with a spacer part which is separated from the colored layer of the color

filter part in
plane.

SOLUTION: This color filter substrate has a spacer part 9a composed of colored layers 6a to 8a on a light shield film 4a, a spacer part 9b formed of colored layers 6b to 8b on a light shield film 4b, and a spacer part 9c formed of colored layers 6c, 7c, and 8d on a light shield film 4c.

The spacer parts 9a and 9b have the colored layers 6a and 7b connected with the colored layers in a pixel area and the spacer part 9c has any of the colored layers 6c, 7c, and 8d formed discontinuously from the colored area 8c in the pixel area. Consequently, the width of the top layer of the spacer part, specially, 9c is easily be controlled and a spacer part is prevented from entering the pixel area.

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